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Swiss-Prot: PAG_BACAN (P13423)

Protective antigen precursor (PA) (PA-83) (PA83) (Anthrax toxintranslocating protein) [Contains: PA-20 (PA20); PA-63 (PA63)].
Bacillus anthracis.

Feature Table:

FT	SIGNAL	1	29	
FT	CHAIN	30	764	PROTECTIVE ANTIGEN.
FT	CHAIN	30	196	PROTECTIVE ANTIGEN, PA-20.
FT	CHAIN	197	764	PROTECTIVE ANTIGEN, PA-63.
FT	DOMAIN	30	287	DOMAIN 1, CALCIUM-BINDING; LF AND EF BINDING SITES.
FT	DOMAIN	288	516	DOMAIN 2, MEMBRANE INSERTION AND HEPTAMERIZATION.
FT	DOMAIN	517	624	DOMAIN 3, HEPTAMERIZATION.
FT	DOMAIN	625	764	DOMAIN 4, BINDING TO THE RECEPTOR.
FT	METAL	206	206	CALCIUM.
FT	METAL	208	208	CALCIUM.
FT	METAL	210	210	CALCIUM.
FT	METAL	217	217	CALCIUM.
FT	SITE	196	197	CLEAVAGE (BY FURIN).
FT	SITE	343	344	CLEAVAGE (BY CHYMOTRYPSIN); REQUIRED FOR TRANSLOCATION OF LF AND EF.
FT	VARIANT	560	560	F -> L (IN SVERDLOVSK SAMPLE).
FT	VARIANT	565	565	P -> S (IN STRAIN BA1024).
FT	VARIANT	600	600	A -> V (IN STRAINS BA1024 AND V770-NP1-R).
FT	MUTAGEN	213	213	P->A: DECREASE IN THE ABILITY TO BIND TO LF AND PARTIALLY TOXIC AT HIGH CONCENTRATIONS.
FT	MUTAGEN	216	216	L->A: DECREASE IN THE ABILITY TO BIND TO LF AND PARTIALLY TOXIC AT HIGH CONCENTRATIONS.
FT	MUTAGEN	231	231	F->A: LOSS OF ABILITY TO BIND TO LF AND COMPLETELY NONTOXIC.
FT	MUTAGEN	232	232	L->A: LOSS OF ABILITY TO BIND TO LF AND COMPLETELY NONTOXIC.
FT	MUTAGEN,	234	234	P->A: LOSS OF ABILITY TO BIND TO LF AND COMPLETELY NONTOXIC.
FT	MUTAGEN	236	236	I->A: LOSS OF ABILITY TO BIND TO LF AND COMPLETELY NONTOXIC.
FT	MUTAGEN	239	239	I->A: DECREASE IN THE ABILITY TO BIND TO LF AND PARTIALLY TOXIC AT HIGH CONCENTRATIONS.
FT	MUTAGEN	255	255	W->A: NO EFFECT ON LF-BINDING ABILITY AND AS TOXIC AS THE WILD-TYPE.

FT	MUTAGEN	<u>265</u>	<u>265</u>	F->A: NO EFFECT ON LF-BINDING ABILITY AND AS TOXIC AS THE WILD-TYPE.
FT	MUTAGEN	<u>289</u>	<u>289</u>	P->A: REDUCED TOXICITY IN COMBINATION WITH LETHAL FACTOR; DECREASED MEMBRANE INSERTION AND TRANSLOCATION OF THE LETHAL FACTOR.
FT	MUTAGEN	<u>342</u>	<u>342</u>	F->C: LOSS OF TOXICITY PROBABLY DUE TO LOSS OF CAPABILITY TO TRANSLOCATE LF.
FT	MUTAGEN	<u>342</u>	<u>344</u>	FFD->AAA: DECREASE IN TOXICITY PROBABLY DUE TO SLOW TRANSLOCATION OF LF.
FT	MUTAGEN	<u>342</u>	<u>343</u>	MISSING: LOSS OF TOXICITY PROBABLY DUE TO LOSS OF CAPABILITY TO TRANSLOCATE LF.
FT	MUTAGEN	<u>344</u>	<u>344</u>	D->A: DECREASE IN TOXICITY PROBABLY DUE TO SLOW TRANSLOCATION OF LF.
FT	MUTAGEN	<u>375</u>	<u>375</u>	W->A: LOSS OF TOXICITY PROBABLY DUE TO FAULTY MEMBRANE INSERTION OR TRANSLOCATION OF LF/EF INTO THE CYTOSOL.
FT	MUTAGEN	<u>379</u>	<u>379</u>	M->A: NO EFFECT.
FT	MUTAGEN	<u>381</u>	<u>381</u>	L->A: LOSS OF TOXICITY PROBABLY DUE TO FAULTY MEMBRANE INSERTION OR TRANSLOCATION OF LF/EF INTO THE CYTOSOL.
FT	MUTAGEN	<u>426</u>	<u>426</u>	K->A: LOSS OF CAPABILITY TO UNDERGO CONFORMATIONAL CHANGES THAT LEAD TO PORE FORMATION AND TRANSLOCATION.
FT	MUTAGEN	<u>454</u>	<u>454</u>	D->A: LOSS OF CAPABILITY TO UNDERGO CONFORMATIONAL CHANGES THAT LEAD TO PORE FORMATION AND TRANSLOCATION.
FT	MUTAGEN	<u>456</u>	<u>456</u>	F->A: LOSS OF CAPABILITY TO UNDERGO CONFORMATIONAL CHANGES THAT LEAD TO PORE FORMATION AND TRANSLOCATION.
FT	MUTAGEN	<u>512</u>	<u>512</u>	Q->A: LOSS OF HEPTAMERIZATION CAPABILITY.
FT	MUTAGEN	<u>541</u>	<u>541</u>	D->A: LOSS OF HEPTAMERIZATION CAPABILITY.
FT	MUTAGEN	<u>543</u>	<u>543</u>	L->A: DECREASE IN HEPTAMERIZATION CAPABILITY.
FT	MUTAGEN	<u>581</u>	<u>581</u>	F->A: LOSS OF TOXICITY DUE TO DEFECTIVE OLIGOMERIZATION.
FT	MUTAGEN	<u>583</u>	<u>583</u>	F->A: DECREASE IN TOXICITY DUE TO DEFECTIVE OLIGOMERIZATION.
FT	MUTAGEN	<u>591</u>	<u>591</u>	I->A: LOSS OF TOXICITY DUE TO DEFECTIVE OLIGOMERIZATION.
FT	MUTAGEN	<u>595</u>	<u>595</u>	L->A: LOSS OF TOXICITY DUE TO DEFECTIVE OLIGOMERIZATION.
FT	MUTAGEN	<u>603</u>	<u>603</u>	I->A: LOSS OF TOXICITY DUE TO DEFECTIVE OLIGOMERIZATION.
FT	MUTAGEN	<u>621</u>	<u>621</u>	R->A: NO EFFECT.
FT	CONFLICT	<u>314</u>	<u>314</u>	Q -> E (IN REF. 1).
FT	STRAND	<u>49</u>	<u>53</u>	
FT	TURN	<u>56</u>	<u>57</u>	
FT	STRAND	<u>61</u>	<u>66</u>	
FT	STRAND	<u>71</u>	<u>71</u>	
FT	STRAND	<u>74</u>	<u>74</u>	
FT	HELIX	<u>76</u>	<u>78</u>	
FT	TURN	<u>80</u>	<u>81</u>	
FT	HELIX	<u>84</u>	<u>87</u>	
FT	STRAND	<u>91</u>	<u>99</u>	
FT	STRAND	<u>104</u>	<u>110</u>	
FT	TURN	<u>111</u>	<u>112</u>	
FT	HELIX	<u>113</u>	<u>115</u>	
FT	STRAND	<u>116</u>	<u>120</u>	
FT	TURN	<u>121</u>	<u>122</u>	
FT	STRAND	<u>123</u>	<u>126</u>	
FT	STRAND	<u>135</u>	<u>137</u>	
FT	TURN	<u>139</u>	<u>140</u>	
FT	STRAND	<u>142</u>	<u>150</u>	
FT	STRAND	<u>159</u>	<u>159</u>	

FT	STRAND	162	166
FT	STRAND	172	174
FT	TURN	177	179
FT	STRAND	180	181
FT	TURN	207	208
FT	HELIX	214	219
FT	STRAND	221	225
FT	STRAND	230	234
FT	HELIX	237	241
FT	TURN	242	244
FT	STRAND	248	248
FT	TURN	252	253
FT	TURN	257	258
FT	HELIX	264	269
FT	TURN	270	270
FT	TURN	274	275
FT	HELIX	278	281
FT	TURN	283	284
FT	STRAND	285	285
FT	STRAND	291	302
FT	STRAND	318	326
FT	STRAND	331	331
FT	STRAND	350	350
FT	STRAND	357	363
FT	TURN	383	384
FT	STRAND	387	397
FT	STRAND	403	403
FT	STRAND	410	414
FT	TURN	415	417
FT	STRAND	418	423
FT	TURN	427	428
FT	STRAND	434	434
FT	TURN	436	437
FT	STRAND	438	440
FT	TURN	443	444
FT	STRAND	448	449
FT	TURN	456	457
FT	STRAND	461	463
FT	HELIX	465	474
FT	STRAND	476	481
FT	STRAND	487	492
FT	TURN	493	496
FT	STRAND	497	505
FT	HELIX	506	516
FT	STRAND	517	522
FT	TURN	524	526
FT	STRAND	530	535
FT	STRAND	537	537
FT	STRAND	551	551
FT	HELIX	552	560
FT	STRAND	563	563
FT	TURN	565	566
FT	STRAND	570	571
FT	TURN	572	573
FT	STRAND	574	575
FT	HELIX	576	578
FT	STRAND	579	583
FT	HELIX	585	598
FT	TURN	599	599
FT	TURN	603	603
FT	HELIX	604	609
FT	STRAND	611	611
FT	STRAND	613	613
FT	TURN	614	615
FT	STRAND	617	622

FT	TURN	623	624
FT	STRAND	626	627
FT	TURN	629	630
FT	STRAND	633	635
FT	HELIX	638	643
FT	TURN	644	645
FT	STRAND	648	651
FT	STRAND	655	658
FT	HELIX	662	666
FT	TURN	667	667
FT	STRAND	668	676
FT	TURN	678	679
FT	STRAND	682	684
FT	TURN	685	686
FT	TURN	689	690
FT	STRAND	695	697
FT	TURN	699	700
FT	STRAND	703	706
FT	TURN	709	713
FT	TURN	721	722
FT	STRAND	724	731
FT	HELIX	732	734
FT	TURN	748	749
FT	STRAND	753	759
FT	HELIX	760	764

For reference to the SEView applet, see [In Silico Biology, Vol. 1 \(1998\)](#).

Click [here](#) for a description of represented protein features.

Note to Mac users: There seems to be a bug in many versions (4.x) of Netscape Communicator that causes SEView to fail. We're sorry about this but there is nothing we can do. Please try with Explorer or upgrade your version of Netscape.

Click on items to see a description. Drag the two red cursors to select a zoom region.

About

